

## END MODIFIED THERMAL RESPONSIVE HYDROGELS

### Abstract of the Invention

5 A pharmaceutical composition includes a pharmaceutically acceptable carrier,  
comprising a reverse thermally viscosifying polymer. The polymer includes a linear block  
copolymer, wherein at least one block comprises a poloxamer; and at least one block  
comprises a biocompatible polymer or oligomer, in an aqueous medium. The composition also  
includes an active agent which imparts a pharmaceutical or cosmetic effect. The composition  
viscosifies in response to an environmental stimulus. The composition is suitable for  
10 administration of the pharmaceutical agent across dermal, otic, rectal, vaginal, ophthalmic,  
esophageal and nasal mucosal membranes.

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